QC ABSTRACT

Nameof Work: Improvements to roads and drains in Vinayaka Nagar and Surrounding areas in Ward No.14,Dasarahalli Sub division, BBMP, Bangalore.

SI. No.	Item	Quantity As Per BOQ	Required No's of testes	Actual No's of testes	Testes	Frequency
1	1:4:8	31.02 Cum	1	1	Cement Sand, Aggregates	One Test Per Lot
2	M20	59.22 Cum	5	5	Concrete Cube Compressive Strength	-
3	Steel	3.55 Tonne	-	-	-	-
4	Slab (100mm)	169.20 Sqm	1	1	Concrete Core Compressive Strength	-

Cubes	0-5 Cum	1Set
	6-15 Cum	2Set
	16-30 Cum	3Set
	31-50 Cum	4Set
	Add 1set for extra 50Cum	

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ಜಿ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ. ಜಿ.ಜಿ.ಎಂ.ಪಿ
ಬೆಂಗಳೂರು 560073

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Job No.: CACE/BBMP/CKM/W.No.14/2022-23 Date: 07.09.2022

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Sri. Chethan K M,** Contractor, Bangalore.
NAME OF THE WORK	:	Improvements to roads and drains in Vinayaka Nagar and Surrounding areas in Ward No.14,Dasarahalli Sub division, BBMP, Bangalore.
SAMPLE ID	:	Cement (Zuari OPC 53 Grade)
DATE OF MANUFACTURE		August - 2022
DATE OF TESTING		05.09.2022 to 07.09.2022
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	340 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.00 %	-

Note:

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Sukanth S. C.

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Job No.: CACE/BBMP/CKM/W.No.14/2022-23

Date : 07.09.2022

TEST REPORT ON FINE AGGREGATES (SAND)

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. Chethan K M, Contractor, Bangalore.

Name of Work : Improvements to roads and drains in Vinayaka Nagar and Surrounding areas in Ward No.14,Dasarahalli Sub division, BBMP, Bangalore.

Date of Testing : 07.09.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	90	9.00	9.00	91.0	90-100
2.36	130	13.00	22.00	78.0	75-100
1.18	179	17.90	39.90	60.1	55-90
600 Micron	167	16.70	56.60	43.4	35-59
300 Micron	269	26.90	83.50	16.5	8-30
150 Micron	133	13.30	96.80	3.2	0-10

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Job No.: CACE/BBMP/CKM/W.No.14/2022-23

Date : 07.09.2022

TEST REPORT ON COARSE AGGREGATES

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. Chethan K M, Contractor, Bangalore.

Name of Work : Improvements to roads and drains in Vinayaka Nagar and Surrounding areas in Ward No.14,Dasarahalli Sub division, BBMP, Bangalore.

Date of Testing : 07.09.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	190	3.8	3.8	96.2	95-100
10	2398	48.0	51.8	48.2	25-55
4.75	1896	37.9	89.7	10.3	0-10

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Job No.: CACE/BBMP/CKM/W.No.14/2022-23 Date : 07.09.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **Sri. Chethan K M, Contractor, Bangalore.**

Name of Work : Improvements to roads and drains in Vinayaka Nagar and Surrounding areas in Ward No.14,Dasarahalli Sub division, BBMP, Bangalore.

Date of Testing : 07.09.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	199	1.33	1.33	98.67	95-100
20	8125	54.17	55.49	44.51	30-70
10	3210	21.40	76.89	23.11	10-35
4.75	2790	18.60	95.49	4.51	0-5

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Date : 07.09.2022

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. Chethan K M, Contractor, Bangalore.

Name of Work : Improvements to roads and drains in Vinayaka Nagar and Surrounding areas in Ward No.14,Dasarahalli Sub division, BBMP, Bangalore.

Date of Testing : 07.09.2022

Material : Sand - Masonry

Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	14	1.40	1.40	98.6	90-100
1.18	38	3.80	5.20	94.8	70-100
600 Micron	84	8.40	13.60	86.4	40-100
300 Micron	256	25.60	39.20	60.8	5-70
150 Micron	489	48.90	88.10	11.9	0-15

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Job No.: CACE/BBMP/CKM/W.No.14/2022-23 Date : 09.09.2022

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. Chethan K M, Contractor, Bangalore.

Name of Work : Improvements to roads and drains in Vinayaka Nagar and Surrounding areas in Ward No.14,Dasarahalli Sub division, BBMP, Bangalore.

Steel Dia/Length : 8mm,10mm,12mm " Fe500 TMT Bars"

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test : 09.09.2022

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	8	0.398	545	625	1.15	14
2	TMT	10	0.62	557	640	1.15	15
3	TMT	12	0.891	563	655	1.16	16

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Job No.: CACE/BBMP/CKM/W.No.14/2022-23 Date: 27.09.2022

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client	:	**Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**
Contractor	:	**Sri. Chethan K M, Contractor, Bangalore.**
Name of Work	:	Improvements to roads and drains in Vinayaka Nagar and Surrounding areas in Ward No.14,Dasarahalli Sub division, BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	27.09.2022
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	81.00	0.375	2357.85	1.62	0.959	32.30	16.45	17.77	17.04	21.30
2	50.00	83.00	0.389	2386.94	1.66	0.963	33.60	17.11	18.48	17.80	22.25
3	50.00	85.00	0.399	2390.69	1.70	0.968	33.90	17.27	18.65	18.04	22.55

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For CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/CKM/W.No.14/2022-23 Date: 17.09.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **Sri. Chethan K M, Contractor, Bangalore.**

Name of the work : Improvements to roads and drains in Vinayaka Nagar and Surrounding areas in Ward No.14,Dasarahalli Sub division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.09.2022	17.09.2022	8.168	336.3	14.95
2	10.09.2022	17.09.2022	8.184	345.5	15.36
3	10.09.2022	17.09.2022	8.172	352.8	15.68

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Job No.: CACE/BBMP/CKM/W.No.14/2022-23 Date: 08.10.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **Sri. Chethan K M, Contractor, Bangalore.**

Name of the work : Improvements to roads and drains in Vinayaka Nagar and Surrounding areas in Ward No.14,Dasarahalli Sub division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.09.2022	08.10.2022	8.186	500.2	22.23
2	10.09.2022	08.10.2022	8.154	476.5	21.18
3	10.09.2022	08.10.2022	8.149	489.6	21.76

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Job No.: CACE/BBMP/CKM/W.No.14/2022-23 Date: 17.09.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **Sri. Chethan K M, Contractor, Bangalore.**

Name of the work : Improvements to roads and drains in Vinayaka Nagar and Surrounding areas in Ward No.14,Dasarahalli Sub division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.09.2022	17.09.2022	8.188	334.2	14.85
2	10.09.2022	17.09.2022	8.165	346.5	15.40
3	10.09.2022	17.09.2022	8.146	352.8	15.68

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Job No.: CACE/BBMP/CKM/W.No.14/2022-23 Date: 08.10.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. Chethan K M, Contractor, Bangalore.

Name of the work : Improvements to roads and drains in Vinayaka Nagar and Surrounding areas in Ward No.14,Dasarahalli Sub division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.09.2022	08.10.2022	8.168	500.2	22.23
2	10.09.2022	08.10.2022	8.184	489.6	21.76
3	10.09.2022	08.10.2022	8.146	496.3	22.06

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ಡಿ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ. ಜಿ.ಜಿ.ಎಂ.ಪಿ
ಬೆಂಗಳೂರು-560073

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
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CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company
NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/CKM/W.No.14/2022-23 Date: 19.09.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. Chethan K M, Contractor, Bangalore.

Name of the work : Improvements to roads and drains in Vinayaka Nagar and Surrounding areas in Ward No.14,Dasarahalli Sub division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.09.2022	19.09.2022	8.168	336.3	14.95
2	12.09.2022	19.09.2022	8.184	354.2	15.74
3	12.09.2022	19.09.2022	8.146	346.2	15.39

Note:

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Job No.: CACE/BBMP/CKM/W.No.14/2022-23 Date: 10.10.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **Sri. Chethan K M, Contractor, Bangalore.**

Name of the work : Improvements to roads and drains in Vinayaka Nagar and Surrounding areas in Ward No.14,Dasarahalli Sub division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.09.2022	10.10.2022	8.189	500.4	22.24
2	12.09.2022	10.10.2022	8.156	513.2	22.81
3	12.09.2022	10.10.2022	8.162	495.6	22.03

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Srikanth S. C

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **Sri. Chethan K M, Contractor, Bangalore.**

Name of the work : Improvements to roads and drains in Vinayaka Nagar and Surrounding areas in Ward No.14,Dasarahalli Sub division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.09.2022	19.09.2022	8.184	332.3	14.77
2	12.09.2022	19.09.2022	8.169	346.5	15.40
3	12.09.2022	19.09.2022	8.152	354.8	15.77

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Sukanth. S. C

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Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.09.2022	10.10.2022	8.198	505.2	22.45
2	12.09.2022	10.10.2022	8.166	516.2	22.94
3	12.09.2022	10.10.2022	8.145	484.9	21.55

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Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.09.2022	19.09.2022	8.195	332.3	14.77
2	12.09.2022	19.09.2022	8.166	345.5	15.36
3	12.09.2022	19.09.2022	8.148	356.2	15.83

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Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.09.2022	10.10.2022	8.189	506.2	22.50
2	12.09.2022	10.10.2022	8.165	484.5	21.53
3	12.09.2022	10.10.2022	8.144	490.3	21.79

Note:

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